

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A process of manufacturing a roll punch used for forming partition walls of a plasma display panel, comprising the steps of:

coating a mask on an external surface of a forming roll;

partially removing the mask from said forming roll at regularly spaced positions while rotating said forming roll, thus forming an intermediate product having a plurality of ~~regularly spaced~~ mask-free parts formed as continuous circles around, each encircling the forming roll; and

etching said intermediate product at the mask-free parts ~~within an etching tank provided with at least one ultrasonic vibrator~~ by radiating ultrasonic waves ~~from said at least one ultrasonic vibrator towards the mask-free parts while rotating said intermediate product, thus forming a plurality of partition wall forming grooves encircling said forming roll of the intermediate product; and~~

~~completely removing a remaining part of said mask from the forming roll having the partition wall forming grooves, thus finally producing a roll punch.~~

2. (Original) The process according to claim 1, wherein the partial removal of said mask from the forming roll at the regularly spaced positions is

carried out by radiating a laser beam on the mask.

3. (Original) The process according to claim 1, wherein the partial removal of said mask from the forming roll at the regularly spaced positions is carried out by a cutting bite.

4. (Currently Amended) The process according to claim ~~1~~ 9, wherein an inclination angle of each inclined sidewall of each of said partition wall forming grooves of the roll punch relative to a vertical reference line perpendicular to an external surface of lands between said forming grooves is 3° or less.

5. (Currently Amended) The process according to claim ~~1~~ 9, wherein the partition wall forming grooves of the roll punch are fabricated such that a value of $[h/(b-a)]$ is 30 or more, wherein "h" is a height of each of the partition walls formed on the plasma display panel by said forming grooves of the roll punch, "b" is a width of a middle portion of said partition wall, and "a" is a width of a top portion of said partition wall.

6. (Currently Amended) The process according to claim 1 ~~9~~, wherein the at least one ultrasonic vibrator includes two ultrasonic vibrators placed at different sides of the intermediate product.

7. (Currently Amended) The process according to claim 1 ~~9~~, wherein, prior to the step of completely removing the remaining part of said mask from the forming ~~row~~ roll, the intermediate product is removed from the etching tank.

8. (New) The process according to claim 1, wherein the etching step includes etching intermediate product at the mask-free parts within an etching tank provided with at least one ultrasonic vibrator by radiating ultrasonic waves from said at least one ultrasonic vibrator towards the mask-free parts while rotating said intermediate product, thus forming a plurality of partition wall forming grooves encircling said forming roll of the intermediate product.

9. (New) The process according to claim 8, further comprising:
completely removing a remaining part of said mask from the forming roll having the partition wall forming grooves, thus finally producing a roll punch.

10. (New) A plasma display panel produced by using a roll punch manufactured according to claim 1.